

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES ▼
HUMAN RESOURCES ENTERPRISE
SENIOR TRANSPORTATION ENGINEER

DEFINITION

Provides advanced professional engineering and administrative work in a staff capacity for division director or designee; plans, monitors and coordinates the development of projects, programs and activities on a regional, division or department-wide basis; performs related work as required.

The Work Examples and Competencies listed are for illustrative purposes only and not intended to be the primary basis for position classification decisions.

WORK EXAMPLES

Assists an administrator or an executive in maintaining continuity of operations; works with managers and staff in attaining performance objectives, engineering achievements and effectiveness; may serve as member of division management team.

Coordinates and directs project development activities having critical long-term impacts and involving highly complex engineering and extreme public/political sensitivity; communicates as the department's representative, with counties, cities and other state and federal agencies, general public, public officials and news media.

Reviews and interprets project plans and specifications; writes specifications or design procedures; provides technical and administrative assistance in the specification development process; analyzes industry standards and assures department compliance in practices and procedures; serves as technical resource in the interpretation of engineering specification language, particularly for complex and unique structures.

Coordinates and administers federal and state assistance to cities and counties; works with staff department-wide in the interpretation, application and compliance with objectives and criteria for several diverse funding programs.

Performs research; plans and coordinates program development in engineering and technology transfer; manages research projects requiring specialized experience and skills; investigates, conducts and coordinates technical analysis and evaluation of research by department staff and other organizations; provides training and orientation on research and results.

COMPETENCIES REQUIRED

Knowledge of the principles, practices and techniques associated with the assigned area of specialization within the field of transportation engineering.

Knowledge of current literature, trends, and developments in the field of transportation engineering specialization.

Knowledge of mathematics including algebra, geometry, and trigonometry.

Knowledge of state and federal laws and regulations applicable to the area of assigned specialization.

Knowledge of the policies and procedures of the agency as they relate to the work of the division.

Ability to read and write the English language to obtain and present facts, data, and opinions clearly and concisely, both orally and in writing, to explain, persuade, negotiate, and defend positions taken by the department.

Ability to research, analyze and interpret technical data.

Ability to write clear and concise technical documents.

Ability to make oral presentations.

Ability to interact with agency staff, contractors, consultants, state/federal officials, or the general public to negotiate acceptance/implementation of project recommendations or solutions.

Ability to lead others and to work cooperatively in a team environment.

Ability to determine project budget requirements in relation to personnel, materials and equipment necessary to complete or carry out work of a proposed project or program.

Ability to keep own emotions under control and restrain negative behaviors when provoked or when working under conditions of stress.

Ability to understand and appreciate different and opposing perspectives, to adapt own approach to changing situations and to change or easily accept changes in own organization or job requirements.

Ability to meet customer needs in a consistently helpful and courteous manner.

Ability to apply personal ethical standards such as honesty, responsibility and trustworthiness required to be a productive employee.

Displays high standards of ethical conduct. Refrains from dishonest behavior.

Works and communicates with all clients and customers, providing quality professional service.

Displays a high level of initiative, effort, attention to detail and commitment by completing assignments efficiently with minimal supervision.

Follows policy and cooperates with supervisors.

Fosters and facilitates cooperation, pride, trust, and group identity and team spirit throughout the organization.

Exchanges information with individuals or groups effectively by listening and responding appropriately.

EDUCATION, EXPERIENCE, AND SPECIAL REQUIREMENTS

Licensed as a professional engineer, and the equivalent of four years of full-time licensed professional transportation or related civil engineering experience. Must have, or prior to appointment, must obtain an active Iowa professional engineering license through the Iowa Professional Licensing Bureau – Engineering and Land Surveying Examination Board;

OR

a Masters degree in chemical, civil, construction, environmental, materials, structural or transportation engineering; or an area closely related to transportation engineering may be substituted for one year of the required experience;

OR

employees with current continuous experience in the state executive branch that includes experience equal to eighteen months of full-time experience as a Transportation Engineer Specialist or Transportation Engineering Manager.

Effective Date: 8/14 SA